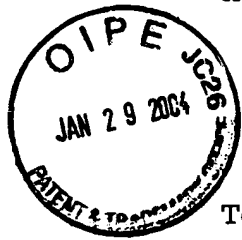


HTIRC-02-017



January 5, 2004

To: Commissioner for Patents  
P.O.Box 1450  
Alexandria, VA 22313-1450

Fr: George O. Saile, Reg. No. 19,572  
28 Davis Avenue  
Poughkeepsie, N.Y. 12603

Subject: | Serial No. 10/688,046 10/17/03 |  
Hung Liang Hu et al.  
FULLY SHIELDED PERPENDICULAR  
RECORDING WRITER  
| \_\_\_\_\_ |

INFORMATION DISCLOSURE STATEMENT

Enclosed is Form PTO-1449, Information Disclosure Citation  
In An Application.

The following Patents and/or Publications are submitted to  
comply with the duty of disclosure under CFR 1.97-1.99 and  
37 CFR 1.56.

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being  
deposited with the United States Postal Service as first class  
mail in an envelope addressed to: Commissioner for Patents,  
P.O. Box 1450, Alexandria, VA 22313-1450, on January 27, 2004.

Stephen B. Ackerman, Reg.# 37761

Signature/Date

SB Ackerman 1/27/04

HTIRC-02-017

U.S. Patent 4,656,546 to Mallory, "Vertical Magnetic Recording Arrangement," describes a downstream shield.

U.S. Patent 5,003,423 to Imamura et al., "Vertical Recording Magnetic Head," discloses pole shields on the sides, upstream, and downstream.

U.S. Patent 5,075,956 to Das, "Method of Making Recording Heads with Side Shields," discusses a magnetic pole with side shields.

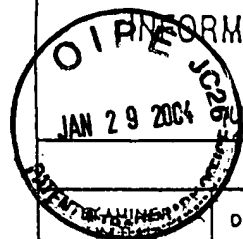
The following two U.S. Patents teach laminated shield layers.

- 1) U.S. Patent 5,621,592 to Gill et al., "Magnetic Head with Magnetically Stable Shield Layers and/or Write Poles."
- 2) U.S. Patent 5,515,221 to Gill et al., "Magnetically Stable Shields for MR Head."

Sincerely,

A handwritten signature in black ink, appearing to read 'SBA', with a large, stylized loop at the end.

Stephen B. Ackerman,  
Reg. No. 37761



# INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary)

Document Number (Optional)

HTIRC-02-017

Application Number

10/688,046

Applicant

Hung Liang Hu et al.

Filing Date

10/17/03

Group Art Unit

## U. S. PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
4656546	4/7/87	Mallory	360	110	1/22/85
5003423	3/26/91	Imamura et al.	360	125	3/22/89
5075956	12/31/91	Das	29	603	4/24/90
5621592	4/15/97	Gill et al.	360	113	6/7/95
5515221	5/7/96	Gill et al.	360	113	12/30/94

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
					YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)


EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.